## **Common Sense Initiative, Automobile Manufacturing Sector**

U.S. Automobile Assembly Plants and Their Communities: Environmental Economic, and Demographic Profile

# Part III: Automobile/Light Duty Truck Assembly Plant-Community Profiles

52. Nissan Motor Mfg. Smyrna, TN

December 1997

#### **Contents and Guidelines for Use**

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

#### **Contents:**

Plant Locations (National and Michigan maps)

Plant Location, Database Identification Numbers, 1994 Production and Employment

1991 and 1993 RCRA Biennial Report Summary

1991-1994 TRI Releases and Transfers Summary

1994 TRI Releases and Transfers by Chemical

1991-1994 Volatile Organic Compound and Nitrogen Oxide Emissions

1994 Summary of TRI Chemical Releases and Transfers from Sources within 3 Miles of Assembly Plant

Air Quality Attainment Status for Criteria Pollutants (as of 1994)

Community Demographic and Economic Characteristics

Facility Location (map)

Area Wide 1994 TRI Emission Profile (map)

1994 TRI Releases and Transfers from Sources within 3 Miles of Assembly Plant, by Chemical

Demographic Characteristics (maps)

#### **General Guidelines for Use**

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

- 1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
- 2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
- 3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
- 4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

#### **Notes on Comparisons Across Facilities**

- 1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
- 2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
- 3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
- 4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

#### **Plant-Community Profile: Nissan Motor Manufacturing** Smyrna TN

LOCATION Address 983 Nissan Drive, Smyrna TN 37167 DESCRIPTION Produced Altima, 200 SX, Pickup and Sentra in 1994.

latitude (degrees N) 35 57' 47" Lat/Long:

longitude (degrees W)
Rutherford MSA: 86 29' 43"

County: Nashville TN **ID NUMBERS** RCRA ID TND054481205 Other counties within 3 miles of plant: none AIRS ID AFS4714900155

NPDES ID **OPERATIONS** TRI Production **Employment** 37167NSSNMNISSA

Calendar Year: 1991 265,023 1992 300,328 1993 385,972 1994

RCRA BIENNIAL REPORT

444,608 5,900

#### PLANT ENVIRONMENTAL PROFILE

Quantity

Quantity

Quantity

						Quantity	Quantity	Quantity	
<b>Waste Code(s)</b> 1991	Wastewater?	Physical Form	Source	Mgd. On/Off-Site	Management Method G	Generated (tons)	Shipped (tons)	Mgd. On-Site (tons	s)
D001 (ignitable)	?	Not rep't	Not rep't	Off	M122 evaporation	4.2	4.2	0.0	
D001(ignit) F005 (solvents)	?	Not rep't	Not rep't	Off	M029 solvents recov. }	668.6	631.4	0.0	
D001(ignit) F005 (solvents)	?	Not rep't	Not rep't	Off	M122 evaporation }		631.4	0.0	
F001, D006, D007	?	Not rep't	Not rep't	Off	M122 evaporation	0.0	0.0	0.0	
D008 (lead)	?	Not rep't	Not rep't	Not rep't	Not rep't	56.8	-	-	
TOTAL - 1991						729.6	1,267.0	0.0	
1993									
D001 (ignitable)	?	Not rep't	Not rep't	Off	M125 other treat.	7.8	7.8	0.0	
D001 (ignitable)	?	Not rep't	Not rep't	Off	M125 other treat.	6.5	6.5	0.0	
D001 (ignitable) F005 (solvents)	?	Not rep't	Not rep't	Off	M029 solvents recov.	1,367.7	1,367.7	0.0	
D001(ignitable) D018 (benzene)	?	Not rep't	Not rep't	Off	M125 other treat.	7.7	7.7		
D008 (lead)	?	Not rep't	Not rep't	Off	M125 other treat.	17.4	17.4		
F003 (non-halog solvents)	?	Not rep't	Not rep't	Off	M125 other treat.	2.6	2.6		
F003 (solvents) D001(ignitable)	?	Not rep't	Not rep't	Off	M125 other treat.	30.9	30.9		
TOTAL - 1993						1,440.7	1,440.7	0.0	
TOXICS RELEASE INVENTORY									
	Air-Fugitive	Air-Stack	Total	Discharge	Off-Site	Off-Site	Off-Site	Off-Site	Total
Total lbs of TRI chemicals:	Emissions	Emissions	Releases	to POTW	Energy Recovery	Recycling	Treatment	Disposal	Transfers
1991	99,206	2,401,002	2,500,208	1,590	0	1,245,978	280	87,378	1,335,226
1992	37,221	2,793,616	2,830,837	1,677	0	1,598,984	130	79,229	1,680,020
1993	157,475	2,361,840	2,519,315	9,566	15,427	459,794	0	113,302	598,089
1994	201,823	2,226,962	2,428,785	8,064	6,016	752,305	0	38,902	805,287
Lbs. per vehicle produced:									
1991	0.37	9.06	9.43	0.01	0.00	4.70	0.00	0.33	5.04
1992	0.12		9.43		0.00	5.32	0.00		5.59
1993	0.41		6.53			1.19	0.00	0.29	1.55
1994	0.45	5.01	5.46	0.02	0.01	1.69	0.00	0.09	1.81
1994	0.45	5.01	5.46	0.02	0.01	1.69	0.00	0.09	

#### Plant-Community Profile: Nissan Motor Manufacturing Smyrna TN

#### PLANT ENVIRONMENTAL PROFILE (continued)

#### 1994 TRI Emissions/Releases by Chemical (lbs.)

	Air-Fugitive	Air-Stack	Total	Discharge		Off-Site	Off-Site	Off-Site	Total
Chemical Name	Emissions	Emissions	Releases	to POTW	Energy Recovery	Recycling	Treatment	Disposal	Transfers
FORMALDEHYDE	31	9,798	9,829	0	595	0	0	0	595
METHANOL	94,211	56,875	151,086	0		0	0	0	154
N-BUTYL ALCOHOL	38	195,236	195,274	0		48,794	0	0	49,488
BENZENE	900	0	900	25	64	0	0	0	89
METHYL ETHYL KETONE	340	30,501	30,841	0	0	53,930	0	0	53,930
NAPHTHALENE	286	365	651	21	16	0	0	0	37
1,2,4-TRIMETHYLBENZENE	2,242	270,732	272,974	0		0	0	0	154
ETHYLBENZENE	3,599	55,558	59,157	0		77,043	0	0	77,245
STYRENE	900	0	900	0	64	0	0	0	64
METHYLENEBIS(PHENYLISOCYANATE)	250	0	250	0	0	0	0	0	0
BIS(2-ETHYLHEXYL) ADIPATE	250	27,475	27,725	0	0	0	0	0	0
ETHYLENE GLYCOL	4,529	2,307	6,836	0	0	0	0	0	0
METHYL ISOBUTYL KETONE	81	149,421	149,502	0	679	166,926	0	0	167,605
TOLUENE	6,758	92,632	99,390	22	401	25,681	0	0	26,104
CYCLOHEXANE	235	0	235	0	16	0	0	0	16
XYLENE (MIXED ISOMERS)	25,867	720,584	746,451	22	2,736	374,941	0	0	377,699
ALUMINUM OXIDE (FIBROUS FORM)	611	0	611	183	0	0	0	13,602	13,785
METHYL TERT-BUTYL ETHER	3,380	0	3,380	0	241	0	0	0	241
HYDROCHLORIC ACID	250	0	250	0	0	0	0	0	0
PHOSPHORIC ACID	250	0	250	0	0	0	0	0	0
SULFURIC ACID	250	0	250	0	0	0	0	0	0
BARIUM COMPOUNDS	32	0	32	380	0	0	0	1,903	2,283
COPPER COMPOUNDS	513	0	513	991	0	0	0	991	1,982
GLYCOL ETHERS	54,921	615,478	670,399	5,557	0	0	0	0	5,557
LEAD COMPOUNDS	250	0	250	97	0	4,990	0	4,406	9,493
MANGANESE COMPOUNDS	250	0	250	0	0	0	0	0	0
NICKEL COMPOUNDS	220	0	220	496	0	0	0	8,279	8,775
ZINC COMPOUNDS	379	0	379	270	0	0	0	9,721	9,991
TOTAL	201,823	2,226,962	2,428,785	8,064	6,016	752,305	0	38,902	805,287
VOC/NOx Emissions:									
(lbs/year)	VOCs	NOx							
1990	3,348,000	344,000							
1991	NA	NA							
1992	NA NA	NA							
1993	3,642,000	548,000							
1994	2,910,000	358,000							
1001	_,= : = ,000	,-50							

## Plant-Community Profile: Nissan Motor Manufacturing Smyrna TN

#### **COMMUNITY ENVIRONMENTAL PROFILE**

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

	Facility (w. map #)	Air-Fugitive Emissions	Air-Stack Emissions	Total Releases	Discharge to POTW	Off-Site Transfers	Total Transfers
1	SPAULDING COMPOSITES CO. FILAW	0	0	0	0	0	0
2	GREER-SMYRNA	0	0	0	0	0	0
4	MARINE GROUP INC.	113,728	113,511	227,239	0	0	0
	Total	113,728	113,511	227,239	0	0	0

Air Quality Attainment Status (as of 1994)\*

ozone - nonattainment (moderate) carbon monoxide - attainment or unclassifiable

particulates - unclassifiable lead - unclassifiable

NO2 - cannot be classified or better than national standards

SO2 - attainment

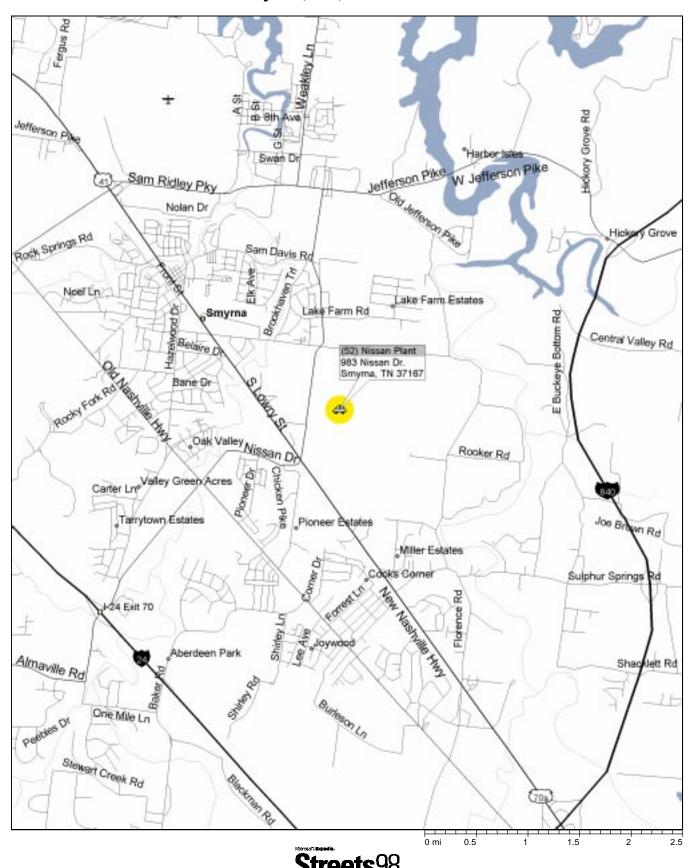
<sup>\*</sup> no changes in designations occurred between 1994 and 1996

### Plant-Community Profile: Nissan Motor Mfg. Smyrna TN

#### COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	Census Block	0-1 Mile	0-3 Miles	1-3 Miles	3-5 Miles	County	State	u.s.
Total Population (1994) Total Population (1990) % Change 1990-1994 Total Area (sq. mi.) (1990) Population/sq. mi. (land area) (1990)	NA 1,493 NA 4.4 341	NA 2,207 NA 3.1 706	NA 15,841 NA 28.2 605	NA 13,634 NA 25.1 591	NA 14,210 NA 50.2 316	140,701 118,570 19 619.0 192	5,175,233 4,877,185 6 41,219.5 118	260,340,990 248,709,873 5 3,536,278.1 70
Median Household Income (1994) Median Household Income (1989) % Change 1979-1989 (constant \$) % Change 1989-1994 (constant \$)						NA 30,878 16 NA	28,639 24,807 5 15	32,264 30,056 7 7
Per Capita Personal Income (1993) Per Capita Personal Income (1989) % Change 1989-1993 (current \$)						18,498 15,454 20	18,439 15,074 22	20,800 17,690 18
Minority Percentage (1990) Pct. of Households Below Poverty Level (1989)	6 21	3 10	4 11	5 11	6 12	10 16	16 18	20 20
Pct. Not Completing High School (1990)	33	29	25	24	25	24	31	25
Total Employment (1994) (civilian nonfarm) Unemployment Rate (1994)						75,653 3	2,665,000 5	131,056,000 6
Manufacturing Employment (1993) Mfgr. as % Total Employment (1993) Manufacturing Employment (1992) Production Workers (1992) % Change in Mfgr. Employment 1987-1992 Assembly Plant as % Total Mfgr. Workers						19,738 38 NA NA NA 30	513,568 8 504,000 370,000 4	18,183,381 19 18,253,000 11,654,000 -4

# Smyrna, TN, Nissan Plant



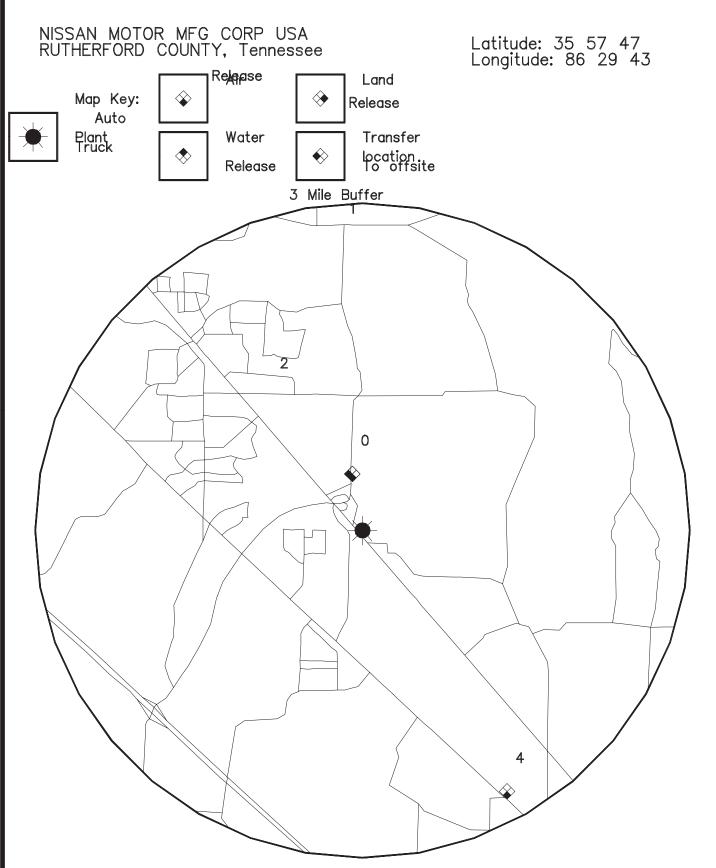
#### NISSAN MOTOR MFG CORP USA 983 NISSAN DR

#### SMYRNA TN

Tri Number: 37167NSSNMNISSA

Map #	SIC Name	Address	City	State
				_
0	3711 NISSAN MOTOR MFG. CORP. USA CORP. USA	983 NISSAN DR.	SMYRNA	TN
1	3084 SPAULDING COMPOSITES CO. FILAWOUND DIV.	291 SAM RIDLEY PKY. E.	SMYRNA	TN
2	3451 GREER-SMYRNA	251 MAYFIELD DR.	SMYRNA	TN
4	3732 MARINE GROUP INC.	6776 OLD NASHVILLE HWY. P.O. BOX 720	MURFREESBORO	TN

# AREA WIDE 1994 TRI EMISSION PROFILE



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

NISSAN MOTOR MFG. CORP. USA CORP. USA  SIC DESCRIPTION: SIC CODE: 3711  SINSAN DESCRIPTION: SIC CODE: 3711  FORMALDEHYDE  FORMALDEHYD  FORMALDEHYDE  FORMALDEHYDE  FORMALDEHYD  FORMALDEHYD  FORMALDEH	Chemical Name	(Non-Point Source) Emissions	(Point Source) Emissions	to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
SIC CODE: 3711 3 NISSAN DR. YRNA TN 37167  RMALDEHYDE 131 9,798 0 0 9,829 0 595 595 THANOL 94,211 56,875 0 0 151,086 0 154 154 BUTYL ALCOHOL 38 195,236 0 0 195,274 0 49,488 49,488 NZENE 900 0 0 0 900 25 64 89 THYLL ETHYL KETONE 340 30,501 0 0 30,841 0 53,930 53,930 PHTHALENE 2,242 270,732 0 0 272,974 0 154 154 YRENE 900 5 0 0 59,157 0 77,245 77,245 YRENE 900 5 0 0 59,157 0 77,245 77,245 YRENE 900 5 0 0 59,157 0 77,245 77,245 YRENE 900 5 0 0 59,157 0 77,245 77,245 YRENE 900 5 0 0 59,157 0 77,245 77,245 YRENE 900 6 0 0 900 0 64 64 64 64 FYLLENTRIENSIS (PHENYLISOCYANATE) 250 0 0 0 0 0 900 0 64 64 S(2-ETHYLHEXYL) ADIPATE 250 27,475 0 0 0,272,775 0 0 0 0 THYLE GLYCOL 4,529 2,307 0 0 6,836 0 0 0 THYL ISOBUTYL KETONE 81 149,421 0 0 149,502 0 167,605 167,605 LUENE 6,758 92,632 0 0 99,390 22 26,082 26,104 LUENE 6,758 92,632 0 0 99,390 22 26,082 26,104 LUENE (MIXED ISOMERS) 25,867 720,584 0 0 746,451 22 377,677 377,699 THYL INFORMATION 611 0 0 0 611 183 13,602 13,785 THYL TET-BUTYL ETHER 3,380 0 0 0 746,451 22 377,677 377,699 THYL TET-BUTYL ETHER 3,380 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 0 LFURIC ACID 250 0 0 0 0 250 0 0 0 0 0 LFURIC ACID 250 0 0 0 0 0 250 0 0 0 0 0 LFURIC ACID 250 0 0 0 0 0 250 0 0 0 0 0 0 0 0 0 0 0									
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FBUTYL ALCOHOL   38   195,236   0   0   195,274   0   49,488   4	ETHANOL	94,211	56,875	0	0	151,086	0	154	154
BENZENE 900 0 0 0 900 25 64 89 89 85 85 86 30 0 0 30,841 0 53,930 53,930 84 1 16 37 84 1 16 37 84 1 16 37 84 1 16 37 84 1 16 37 8 1 16 37 8 1 16 37 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•		0		•	0		
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HOSPHORIC ACID 250 0 0 0 250 0 0 0 0 0 0 0 0 0 0 0 0 0	_		-	-	•		•		
ULFURIC ACID 250 0 0 0 250 0 0 0 0 ARIUM COMPOUNDS 32 0 0 0 0 32 380 1,903 2,283 OPPER COMPOUNDS 513 0 0 0 513 991 991 1,982 LYCOL ETHERS 54,921 615,478 0 0 670,399 5,557 0 5,557 EAD COMPOUNDS 250 0 0 0 250 97 9,396 9,493 ANGANESE COMPOUNDS 250 0 0 0 250 0 0 0 0 CKEL COMPOUNDS 220 0 0 0 220 496 8,279 8,775			-	-	-		-	_	-
ARIUM COMPOUNDS 32 0 0 0 32 380 1,903 2,283 OPPER COMPOUNDS 513 0 0 0 513 991 991 1,982 LYCOL ETHERS 54,921 615,478 0 0 670,399 5,557 0 5,557 EAD COMPOUNDS 250 0 0 0 250 97 9,396 9,493 ANGANESE COMPOUNDS 250 0 0 0 250 0 0 0 0 1CKEL COMPOUNDS 220 0 0 0 220 496 8,279 8,775			-	-	-		-	-	-
OPPER COMPOUNDS       513       0       0       0       513       991       991       1,982         LYCOL ETHERS       54,921       615,478       0       0       670,399       5,557       0       5,557         EAD COMPOUNDS       250       0       0       0       250       97       9,396       9,493         ANGANESE COMPOUNDS       250       0       0       0       250       0       0       0         ICKEL COMPOUNDS       220       0       0       0       220       496       8,279       8,775			-					-	~
LYCOL ETHERS 54,921 615,478 0 0 670,399 5,557 0 5,557 EAD COMPOUNDS 250 0 0 0 250 97 9,396 9,493 ANGANESE COMPOUNDS 250 0 0 0 250 0 0 0 0 1CKEL COMPOUNDS 220 0 0 0 220 496 8,279 8,775								•	•
EAD COMPOUNDS       250       0       0       0       250       97       9,396       9,493         ANGANESE COMPOUNDS       250       0       0       0       250       0       0       0         ICKEL COMPOUNDS       220       0       0       0       220       496       8,279       8,775				•					,
ANGANESE COMPOUNDS 250 0 0 0 250 0 0 0 1CKEL COMPOUNDS 220 0 0 0 220 496 8,279 8,775		•				•	•		- ,
ICKEL COMPOUNDS 220 0 0 0 220 496 8,279 8,775			-		-				
				-	-		-	-	-
INC COMPOUNDS 379 0 0 0 379 270 9,721 9,991				-				•	•
	INC COMPOUNDS	379	0	0	0	379	270	9,721	9,991
SUBTOTALS 201,823 2,226,962 0 0 2,428,785 8,064 797,223 805,287	SUBTO	TALS 201,823	2,226,962	0	0	2,428,785	8,064	797,223	805,287
		LAWOUND DIV.				STIC PIPE		MAP	LOCATION NO
SPAULDING COMPOSITES CO. FILAWOUND DIV. SIC DESCRIPTION: PLASTIC PIPE MAP LOCATION NO SIC CODE: 3084		- 25165							
SIC CODE: 3084 91 SAM RIDLEY PKY. E.	1YRNA T	N 37167							
	SUBTO	TALS 0	0	0	0	0	0	0	0

# 1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF NISSAN MOTOR MFG CORP USA TRI NO: 37167NSSNMNISSA

Chemical Name	(No Sc	Fugitive n-Point ource) issions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS	
GREER-SMYRNA 251 MAYFIELD DR. SMYRNA	TN 371	67		SIC DESCRIPT		EW MACHINE	PRODUCTS	MAP	LOCATION NO:	
	SUBTOTALS	0	0	0	C	0	0	C	0	
MARINE GROUP INC. 6776 OLD NASHVILLE HI MURFREESBORO		720 29 8400		SIC DESCRIPT		T BUILDING	AND REPAIRIN	IG MAP	LOCATION NO:	
1,1,1-TRICHLOROETHAN	Ε	85,350 28,378	0 113,511	0 0	0	•		(		
	SUBTOTALS	113,728	113,511	0	C	227,239	0	C	0	

